

Title (en)  
CYLINDRICAL PRINTING DEVICES

Title (de)  
ZYLINDRISCHE DRUCKVORRICHTUNGEN

Title (fr)  
DISPOSITIFS D'IMPRESSION CYLINDRIQUES

Publication  
**EP 3890984 A1 20211013 (EN)**

Application  
**EP 19908686 A 20190109**

Priority  
US 2019012832 W 20190109

Abstract (en)  
[origin: WO2020145960A1] A vertical column printing device may include a print engine formed within a base housing of the vertical column printing device; a door biased by a spring away from the print engine to be selectively opened to expose the print engine; and a geared platen formed on the door to interface with the print engine to drive a roll of paper past the print engine when the door is engaged with the based housing.

IPC 8 full level  
**B41J 2/315** (2006.01); **G06Q 20/20** (2012.01)

CPC (source: EP US)  
**B41J 2/315** (2013.01 - EP); **B41J 2/32** (2013.01 - EP US); **B41J 3/4075** (2013.01 - EP); **B41J 29/02** (2013.01 - US); **B41J 2202/31** (2013.01 - EP); **G06Q 20/20** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020145960 A1 20200716**; CN 113365844 A 20210907; EP 3890984 A1 20211013; EP 3890984 A4 20220706; TW 202043061 A 20201201; TW I761713 B 20220421; US 2022063314 A1 20220303

DOCDB simple family (application)  
**US 2019012832 W 20190109**; CN 201980091571 A 20190109; EP 19908686 A 20190109; TW 108137293 A 20191016; US 201917420731 A 20190109